

# SEQUENCE LISTING

<110> SHAO, Wei et al.

<120> ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC  
ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
THEREOF

<130> CL001198DIV-II

<140> To Be Assigned

<141> 2004-01-30

<150> 09/820,005

<151> 2001-03-29

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<151> 2002-04-01

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<212> PRT
<213> Homo sapiens

```

```

<400> 4
Met Gly Asp Thr Phe Ile Arg His Ile Ala Leu Leu Gly Phe Glu Lys
 1           5           10          15
Arg Phe Val Pro Ser Gln His Tyr Val Tyr Met Phe Leu Val Lys Trp
          20          25          30
Gln Asp Leu Ser Glu Lys Val Val Tyr Arg Arg Phe Thr Glu Ile Tyr
          35          40          45
Glu Phe His Lys Thr Leu Lys Glu Met Phe Pro Ile Glu Ala Gly Ala
          50          55          60
Ile Asn Pro Glu Asn Arg Ile Ile Pro His Leu Pro Ala Pro Lys Trp

```



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Phe | Asp | Gly | Gln | Arg | Ala | Ala | Glu | Asn | Arg | Gln | Gly | Thr | Leu | Thr | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Tyr | Cys | Ser | Thr | Leu | Met | Ser | Leu | Pro | Thr | Lys | Ile | Ser | Arg | Cys | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| His | Leu | Leu | Asp | Phe | Phe | Lys | Val | Arg | Pro | Asp | Asp | Leu | Lys | Leu | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Asp | Asn | Gln | Thr | Lys | Lys | Pro | Glu | Thr | Tyr | Leu | Met | Pro | Lys | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Lys | Ser | Thr | Ala | Thr | Asp | Ile | Thr | Gly | Pro | Ile | Ile | Leu | Gln | Thr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Tyr | Arg | Ala | Ile | Ala | Asp | Tyr | Glu | Lys | Thr | Ser | Gly | Ser | Glu | Met | Ala |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Leu | Ser | Thr | Gly | Asp | Val | Val | Glu | Val | Val | Glu | Lys | Ser | Glu | Ser | Gly |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Trp | Trp | Phe | Cys | Gln | Met | Lys | Ala | Lys | Arg | Gly | Trp | Ile | Pro | Ala | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Leu | Glu | Pro | Leu | Asp | Ser | Pro | Asp | Glu | Thr | Glu | Asp | Pro | Glu | Pro |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asn | Tyr | Ala | Gly | Glu | Pro | Tyr | Val | Ala | Ile | Lys | Ala | Tyr | Thr | Ala | Val |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Gly | Asp | Glu | Val | Ser | Leu | Leu | Glu | Gly | Glu | Ala | Val | Glu | Val | Ile |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| His | Lys | Leu | Leu | Asp | Gly | Trp | Trp | Val | Ile | Arg | Lys | Asp | Asp | Val | Thr |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gly | Tyr | Phe | Pro | Ser | Met | Tyr | Leu | Gln | Lys | Ser | Gly | Gln | Asp | Val | Ser |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gln | Ala | Gln | Arg | Gln | Ile | Lys | Arg | Gly | Ala | Pro | Pro | Arg | Arg | Ser | Ser |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Arg | Asn | Ala | His | Ser | Ile | His | Gln | Arg | Ser | Arg | Lys | Arg | Leu | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Gln | Asp | Ala | Tyr | Arg | Arg | Asn | Ser | Val | Arg | Phe | Leu | Gln | Gln | Arg | Arg |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Arg | Gln | Ala | Arg | Pro | Gly | Pro | Gln | Ser | Pro | Gly | Ser | Pro | Leu | Glu | Glu |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Glu | Arg | Gln | Thr | Gln | Arg | Ser | Lys | Pro | Gln | Pro | Ala | Val | Pro | Pro | Arg |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Pro | Ser | Ala | Asp | Leu | Ile | Leu | Asn | Arg | Cys | Ser | Glu | Ser | Thr | Lys | Arg |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Leu | Ala | Ser | Ala | Val |     |     |     |     |     |     |     |     |     |     |
| 385 |     |     |     |     | 390 |     |     |     |     |     |     |     |     |     |     |